

**[57] Abstract**

This utility model discloses a kind of plastic mould hot runner device which includes a runner plate; a cylinder; a valve pin connected to and controlled by the cylinder; a nozzle hooked on the valve pin; a sprue at the bottom of the nozzle; a flow divider valve mounted on the runner plate; a sealing valve fitted in the cylindrical cavity of the end section of the nozzle; the flow divider valve and the sealing valve hooked on the valve pin; spacing between the flow dividing valve and the valve pin; a liquid-tight journal between the sealing valve and the valve pin; a liquid-tight flow dividing valve end surface with a liquid-tight sealing valve end surface connected to it; a runner for the flow of plastic mounted on the flow dividing valve and sealing valve, with this runner being interconnected with the runner plate and the runner on the nozzle. After this utility model has, in the hot runner plate, heated and expanded by means of a heating element, the cylinder is still able to bring about a smooth upward and downward motion of the valve pin and ensure that the cylinder, valve pin, nozzle and sprue maintain the same centre and, at the same time, is able to seal extremely well.